BALTIMORE CITY public schools

US Department of Energy Energy CLASS Prize Phase 2 Submission

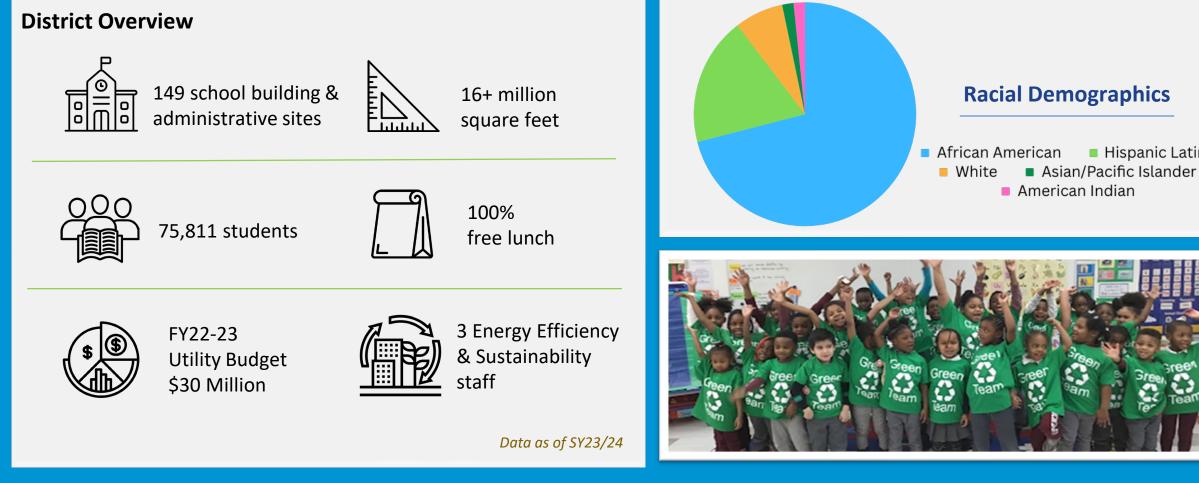
05/17/2024

Baltimore Saves Energy

Raj Bachubhay – Manager of Energy Efficiency and Operations Joanna Pi-Sunyer – Manager of Sustainability Gaby Vinas – Sustainability Analyst



Challenge: Coordinating a sustainability vision across our large portfolio



BALTIMORE CITY PUBLIC SCHOOLS

Hispanic Latino

Our Guide: The Sustainability Policy and Plan

City Schools adopted the <u>Sustainability Policy</u> in 2016. The policy calls for a <u>Sustainability Plan</u>, created in 2018 and updated in 2023.



Training and Coaching

The Energy Manager and the Sustainability Analyst attended all Energy CLASS Prize virtual trainings. Trainings were particularly useful for the onboarding and orientation of our new sustainability analyst who is new to this field.

Led a Lunch and Learn about Fundamental Building Science, which received positive ratings from participants. We plan to hold a second session on indoor air quality this summer.

It was good to know that we had a technical assistance provider ready and able to assist us when we needed help.



Progress Made During Phase 2 & Associated Impacts



Professional Development



Indoor Air Quality (IAQ)



Solid Waste Reduction



Electric Vehicles



Stakeholder Engagement



School Based Greening Projects





Professional Development





School Based Greening Projects





Stakeholder Engagement



Facilities Addressed: District Headquarters



Lighting upgrades using rebates:

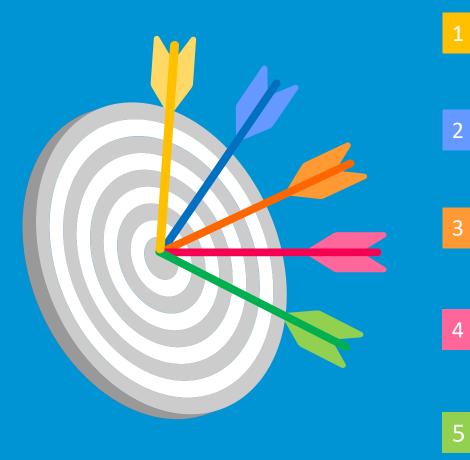
We used our local utility rebates to complete full building lighting retrofits. On average, the pre and post energy use dropped between 15 to 17%.

	2022	2023 2024	
Electricity	Electricity Use (kWh)	Electricity Use (kWh)	Electricity Use (kWh)
January	267,804	288,078	233,749
February	293,206	235,100	226,652
March	260,927	257,605	228,287

Note: Above you will see a 3 month comparison and it averages to 11 % energy use reduction.

District: 204,624 square feet

Our Top 5 Goals



Lower our buildings' Energy Use Index (EUI)

Continue working with utility to access rebates and technical assistance

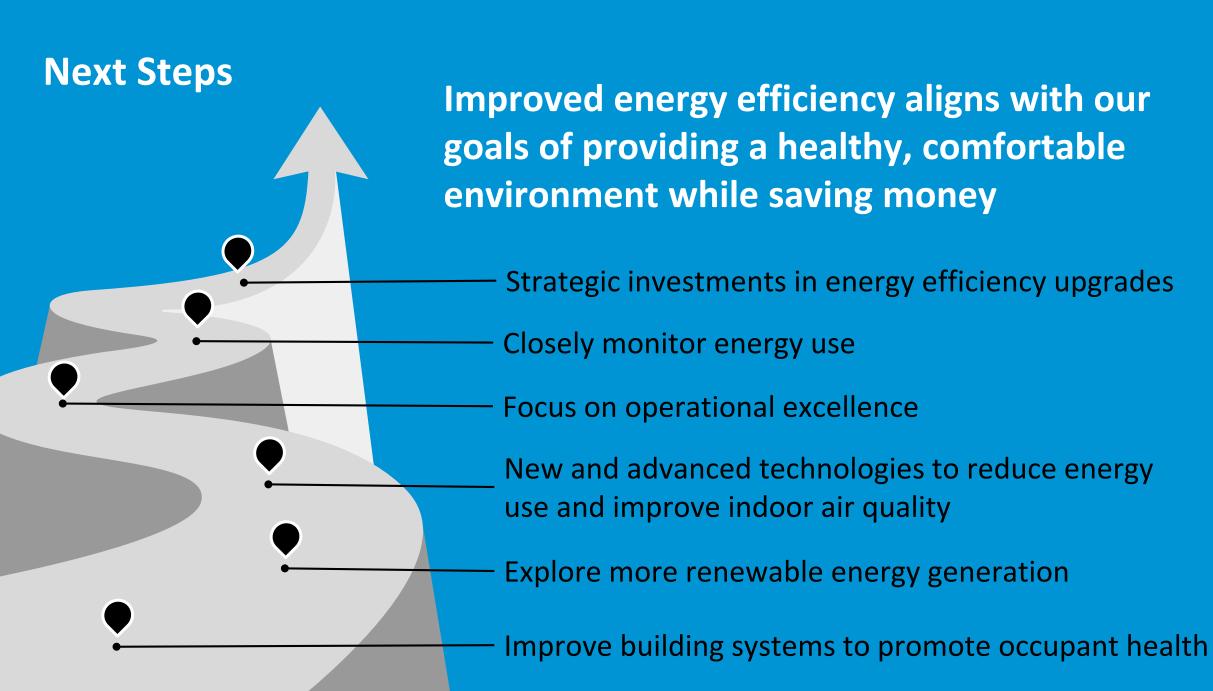
Seek funding to create net zero schools and on site/off site renewable energy

Student and staff education

Implement and uphold the Sustainability Plan

Snapshot of Proposed Upgrades

Goal	Metrics	Strategy	Action	Timeline
Lower Average EUI	Lower EUI	 Improved lighting Tightened occupancy schedules Occupant education & behavior change 	 Utilize utility rebates Continue work with vendor on building schedules Complete and distribute sustainability signs 	SY24-25 and ongoing
Lower Energy Use and Improve Learning Experience	Lower EUI	 ESCO procurement vehicle to get facility improvement projects 	 Additional schools planned for retrofit to LED's Parking lot lighting improvements 	SY24-25 and ongoing
Develop Additional Net Zero Energy Schools	Number of Schools	 Seek grants to offset additional costs in design and construction Stay abreast of best practices from other LEAs and partners 	 Educating Design & Construction and Facilities staff on developing and caring for NZE schools. 	Ongoing
Implement goals of the Sustainability Plan	Multiple	• Multiple	 Multiple, including annual report to the Board of School Commissioners 	Ongoing



Thank you!

For more information, please visit our <u>Sustainability website</u> or contact us at <u>green@bcps.k12.md.us</u>



Rajeshri (Raj) Bachubhay

Manager – Energy Efficiency & Operations rpbachubhay@bcps.k12.md.us

BALTIMORE CITY public schools



Joanna Pi-Sunyer

Manager– Sustainability jpi-sunyer@bcps.k12.md.us



Gaby Vinas

Analyst – Sustainability egvinasmeza@bcps.k12.md.us

BOARD OF SCHOOL COMMISSIONERS

Ronald S. McFadden, *Chair* Shantell L. Roberts, *Vice Chair* Andrew Coy Ashley Esposito Kwame' Jamal Kenyatta -Bey Mujahid Muhammad Vernon A. Reid, Jr. Robert Salley Khalilah Slater Harrington Jamir Lawson, *Student Commissioner* Dr. Jennifer Judkins , *Board Executive Officer*

SENIOR MANAGEMENT TEAM

Dr. Sonja Brookins Santelises , Chief Executive Officer Angela D. Alvarez , Senior Executive Director- Office of New Initiatives Joshua I. Civin , Chief Legal Officer Dr. Joan Dabrowski , Chief Academic Officer Dr. Stacy Place Tosé, Interim Chief of Schools Christopher Doherty , Chief Financial Officer Dr. Tracey L. Durant , Senior Executive Director- Equity Tina Hike-Hubbard , Chief of Communications, Engagement, and Enrollment Theresa D. Jones, Chief Achievement and Accountability Officer Thomas T. Jones, Chief Information Technology Officer Emily Nielson, Chief Human Capital Officer Alison Perkins -Cohen, Chief of Staff Dr. Lynette Washington , Chief Operating Officer Dr. Jennie Wu, Executive Director- Strategy and Continuous Improvement

Baltimore City Public Schools does not discriminate in its employment, programs, and activities, based on race, ethnicity, color, ancestry, national origin, nationality, religion, sex, sexual orientation, gender, gender identity, gender expression, marital status, pregnancy or parenting status, family structure, ability (cognitive, social/emotional, and physical), veteran status, genetic information, age, immigration or citizenship status, socioeconomic status, language, or any other legally or constitutionally protected attributes or affiliations, as outlined in Board Policies JBA, JBB, JICK, ACA, ACB, and ACD.